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C16-C-505

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**BOARD DIPLOMA EXAMINATION, (C-16)**

**OCT/NOV—2018**

**DCE—FIFTH SEMESTER EXAMINATION**

**ADVANCE CIVIL ENGINEERING TECHNOLOGIES**

Time : 3 hours]

[ Total Marks : 80

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**PART—A**

3×10=30

**Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List any three key features of IOT.
2. State any three applications of IOT in smart buildings.
3. List any three types of Map Projections.
4. State any three merits of prestressed concrete.
5. Distinguish between active and passive earth pressure.
6. State any three type of retaining walls.
7. Write about seismic zoning in india.
8. List any three solar energy utilities.
9. State any three advantages of prefabricated structures.
10. State any three materials used in prefabrication.

**PART-B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each questions carries **ten** marks.  
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

**11.** a) Define IOT

b) State any four advantages and four disadvantages of IOT.

**12.** Explain the various segment of GPS.

**13.** Explain the Gifford Udall system of pretensioning with a neat sketch.

**14.** Explain various materials used for prestressed concrete.

**15.** Explain seismic resistant construction of brick masonry buliding as per IS codal provisions.

**16.** Explain Roof top solar power generation systems.

**17.** Explain the process of reinforcing earth with Geogrids.

**18.** Explain the mixed systems of prefabrication.

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